

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A bone-powder-impregnated, porous structure comprising a porous matrix made of a biocompatible material impregnated with fine bone powder obtained by pulverizing living bones and/or teeth.
2. (Original) The bone-powder-impregnated, porous structure according to claim 1, wherein it has fine communicating pores having an average diameter of 0.005-50 μm in its entire body, said fine communicating pores being open on an outer surface of said porous structure at a density of 1 or more per an area of 50 μm x 50 μm .
3. (Original) The bone-powder-impregnated, porous structure according to claim 1, wherein it has communicating macro-pores having an average diameter of 100-1000 μm in its entire body, which are open on an outer surface of said porous structure at a density of 1 or more per an area of 1000 μm x 1000 μm , and fine communicating pores having an average diameter of 0.005-50 μm , which are open on inner walls of said

communicating macro-pores at a density of 1 or more per an area of 50 μm x 50 μm .

4. (Original) The bone-powder-impregnated, porous structure according to claim 1, wherein it has communicating macro-pores having an average diameter of 100-1000 μm in its entire body, which are open on an outer surface of said porous structure at a density of 1 or more per an area of 1000 μm x 1000 μm , and fine recesses having an average diameter of 0.005-50 μm and an average depth of 0.005-50 μm , which are open on inner walls of said communicating macro-pores at a density of 1 or more per an area of 50 μm x 50 μm .

5. (Currently Amended) The bone-powder-impregnated, porous structure according to claim 1 ~~any one of claims 1-4~~, wherein said biocompatible material is at least one selected from the group consisting of ceramics, metals, and polymers.

6. (Original) The bone-powder-impregnated, porous structure according to claim 5, wherein said ceramics are calcium phosphate ceramics.

Claims 7 and 8 (Cancelled)

9. (Currently Amended) The bone-powder-impregnated, porous structure according to claim 1 ~~any one of claims 1-8~~, wherein said fine bone powder has an average diameter of 50 μm or less.

10. (Currently Amended) The bone-powder-impregnated, porous structure according to claim 1 ~~any one of claims 1-9~~, wherein the entire structure is porous.

11. (Currently Amended) The bone-powder-impregnated, porous structure according to claim 1 ~~any one of claims 1-9~~, wherein only a surface layer of said structure is porous.

12. (Currently Amended) A method for producing a bone-powder-impregnated, porous structure comprising a porous matrix made of a biocompatible material impregnated with fine bone powder, said method ~~the bone-powder-impregnated, porous structure recited in any one of claims 1-11~~, comprising the steps of preparing said fine bone powder, and impregnating said porous structure with said fine bone powder.

13. (Original) The method for producing a bone-powder-impregnated, porous structure according to claim 12, wherein said porous structure is impregnated with fine bone powder in the form of a suspension.

14. (Original) An artificial bone comprising the bone-powder-impregnated, porous structure recited in claim 10.

15. (Original) An artificial bone comprising the bone-powder-impregnated, porous structure recited in claim 11.

16. (Original) An artificial dental root comprising the bone-powder-impregnated, porous structure recited in claim 11

17. (Currently Amended) A bone-powder-impregnated, surface-roughened structure comprising a surface-roughened matrix made of a biocompatible material, which is impregnated with fine bone powder obtained by pulverizing living bones and/or teeth.

18. (Original) The bone-powder-impregnated, surface-roughened structure according to claim 17, wherein said surface-roughened structure has fine recesses having an average diameter of 0.005-50 μm and an average depth of 0.005-50 μm , which are open on its entire outer surface at a density of 1 or more per an area of 50 μm x 50 μm .

19. (Currently Amended) The bone-powder-impregnated, surface-roughened structure according to claim 17 ~~or 18~~, wherein said

biocompatible material is at least one selected from the group consisting of ceramics, metals, and polymers.

Claims 20 and 21 (Cancelled)

22. (Currently Amended) The bone-powder-impregnated, surface-roughened structure according to claim 17 ~~any one of claims 17-21~~, wherein said fine bone powder has an average diameter of 50 μ m or less.

23. (Currently Amended) A method for producing a bone-powder-impregnated, surface-roughened structure comprising a surface-roughened matrix made of a biocompatible material, which is impregnated with fine bone powder, said method ~~the bone-powder-impregnated, surface-roughened structure recited in any one of claims 17-22~~, comprising the steps of preparing said fine bone powder, and impregnating said surface-roughened structure with said fine bone powder.

24. (Original) The method for producing a bone-powder-impregnated, surface-roughened structure according to claim 23, wherein a rough surface of said surface-roughened structure is impregnated with fine bone powder in the form of a suspension.

25. (Currently Amended) An artificial bone comprising the bone-powder-impregnated, surface-roughened structure recited in claim 17 ~~any one of claims 17-22.~~

26. (Currently Amended) An artificial dental root comprising the bone-powder-impregnated, surface-roughened structure recited in claim 17 ~~any one of claims 17-22.~~